

**Abstract**

Fluid-based switch and methods for reducing oxides and corrosion products within the switch are disclosed. In one method, oxides are reduced by  
5 depositing a gettering agent within the cavity, depositing a switching fluid on a first substrate, and mating the first substrate to a second substrate, the first substrate and the second substrate defining therebetween a cavity holding the switching fluid, the cavity being sized to allow movement of the switching fluid between first and second states..

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